



**Ek: eṣk**

**fdl ku bZ & if=dk**

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**tṣod dhV fu; æ.k rFk Ákdfrd 'k=ϕlædk I j{k.k , o /kū**  
**dSyk'k plnz vghj , o vjrh I ṣh**  
dhV foKku foHkx] jktLFkku df'k egkfo/kky; ] mn; ij

tṣod fu; U=.k dk; Øe ea l o/kū , oa o/kū dk egRoiwkZ LFkku gṢ ; fn bu nksuka fØ; kvka ij mfr /; ku fn; k tk; s rks dhV fu; U=.k dh vU; fo/kkva ij fuHkZrk de ; k [kRe gks tk; s xh I j{k.k dk vfHki k; mu fØ; kvka dk R; kx gS ftul s fe= dhV , oa ikdfrd "k=q u'V gks gṢ tcf d o/kū dk eryc , d h fØ; kvka I s gS ftul s fe= dhV ka dh me] iztuu "kDr , oa {ks= fo"ksk dh vkj vkd'kZ k c<rk gṢ Ákdfrd "k=q i; kbj.k es ik; s tks gṢ tks gkfudkj d dhV ka dks ekj nrs gṢ bl fy, Ákdfrd "k=ϕ/ka dk I j{k.k djuk cgr t: jh gṢ

**tṣod fu; æ.k & dhV fu; =.h dh og fof/k ftl es ijHk{kh vkj ijthoh dhV] dod] thok.kq] fo'kk.kj fueVQ] lKv@t@vk fj dVfl ; k vkfn ds }kj k dhV fu; =.h fd; k tkrk gṢ ml s tṣod fu; æ.k dgrs gṢ**

**ikdfrd fu; æ.k & lk; kbj.k ds tṣod ¼ ijHk{kh vkj ijthoh dhV] dod] thok.kq fo'kk.kj fueVQ] lKv@t@vk ] fj dVfl ; k vkfn ½ vkj vtṣod/rkieku] o'kZvknrkZ vkfn ½ ?kVdka ds }kj k dhV fu; æ.k tks idfr es ik; k tkrk gṢ ml s ikdfrd fu; æ.k dgrs gṢ**

**yHnk; d dhVædksfuEu HkxæscVk tk I drk gS&**

1- **ijthoh dhV & og dhV** tks vius ijikskh ds "kjh ds vñj ; k ckgj ik; k tkrk gṢ viuk Hkstu ijikskh I siktr djrk gS rFk ijikskh dks udl ku igpkrk gS ijthoh dhV vius ijikskh I svdkj es Nk&k gkrk gS rFk ijikskh dks ekjrk ugh gS ijthoh dhV dks viuk thou pdz ijk djus ds fy; s , d gh ijikskh dh vko"; drk gkrh gS

2- **ijHk{kh dhV & os dhV** tks vkdkj es ijikskh I s cM+gks gS rFk vius ijikskh dks ekj nrs gṢ viuk thou pdz ijk djus ds fy; s , d I s vf/kd ijikskh dh vko"; drk gkrh gṢ ml s ijHk{kh dhV dgrs gṢ

- ❖ mnkgj.k & yMh cM+ dhV y *कोकसीनेला स्पी.* dk mi; ksx , fQM+ ds fu; æ.k ds fy; s fd; k tkrk gṢ
- ❖ uhw dh feyh cx dk fu; æ.k] ijHk{kh dhV *fØVksyf; el ekbVjstjh* ds }kj k fd; k tk I drk gṢ
- ❖ dikl es I Qn eD[kh ds fu; æ.k ds fy; ; ØjkbI *ki jyk dkjfu;* k dk mi; ksx fd; k tkrk gṢ



*ØjkbI ki jyk dkjfu; k*



*dkDI husyk स्पी.*



*fØVksyf; el ekbVjstjh*

3- **ijtho; Hk &** os dhV tks viuh vo; Ld voLFkk es vius iji kskh ij jgrsg rFkk vius iji kskh dks ekj nrs gš viuh o; Ld voLFkk es Loræ jgrsgš ijtho; Hk dgykrsgš

- ❖ mnkgj.k & *Vibdaks tek Lih*] v.M+ ijthoh dk mi; kx xluuk] dikl ] Tokj] eDdk] rFkk /kku dh Ql yk dk Nmd dhV dsfu; æ.k dsfy; sfd; k tkrk gÅ
- ❖ *fdykul cydcufl*] v.M&ykokl ijthoh dk mi; kx dikl dh Ql y ds rhuks ckyokel *Ygsydkojik vkjfe tjkl b; kfjl okb/ sykl i sDVuk Qkj k xkl Qsykl* dsfu; æ.k dsfy; sfd; k tkrk gÅ



*Trichogramma parasitizing an egg.*



*Vibdaks tek Lih*] v.M+ ijthoh

*fdykul cydcufl*] v.M&ykokl ijthoh

**ie{k : i l smi; kx esfy; stkusokysl (etho fufu gÅ&**

**thok.kq**

➤ **thok.kq l Øe.k dsy{k.k &**

- ❖ vkr dk i {kk?kk r gksuk] ftl ds dkl .k Hkstu cln dj nsk rFkk nLr yxrh gÅ
- ❖ bl ds ckn l keW; "kjhj dk i {kk?kk r ¼ jkykbf l ½ gsrk gÅ
- ❖ er; q ds ckn "kjhj dk jax dkyk gks tkrk g rFkk "kjhj uje vkš fujkd kj gks tkrk gÅ
- ❖ vkrfjd Ård fpifpis gks tkrsg rFkk [kjkc nqÅk vkrh gÅ

➤ **okf.kT; d mRi kn &**

- ❖ *cfl yl Fkijft, ufl l ofkbVh dj VLdh* ds okf.kT; d mRi kn fuEu gS & gkYV] MYQhu] ck; kfcV] ck; ksyi] fMi sy vkfnA
- ❖ *cfl yl Fkijft, ufl l ofkbVh Fkijft, ufl l* ds okf.kT; d mRi kn fuEu gS & Fkij l kbM] ij kLi ksju] ckdFku , y&69] ck; kLi kj vkfnA

**fo'kk.kq**

➤ **fo'kk.kq ds l Øe.k dsy{k.k &**

- ❖ fo'kk.kq l Øe.k dsy{k.k dhV dh er; q l s d n l e; igys gh mRi u gsrsgÅ
- ❖ Å'ek; u vof/k & 1 l s 3 l l rkgÅ
- ❖ Hkstu cln dj nsk rFkk l q r gks tkukÅ
- ❖ jax i hyk gks tkrk gÅ
- ❖ dhV vkdkj ea Qwy tkrk gÅ

- ❖ f>Yyh detkj gkdj QV tkrh gš ftl l s ikšygmR jDr ds l kFk "kjhj l s ckgj fudy tkrsgð
- ❖ ejus l sigys dhV i kška ds Áijh Hkx ij pyk tkrk gš vkš vkerkj ij er yokkz i kšyx l syVdk gϕk feyrk gš rFk og dkysjak dk gk tkrk gð

➤ ,u-ihoh dsok.kFT; d mRi kn &

- ❖ gfydkj jik Lih& ck; kš/ky oh-, p-tM-] ok; fj; kš , p] gšy; kšdy vkfnA
- ❖ Lik/ksVjk Lih& ck; kš/ky oh-ih-vkš] ok; fj; kš ih-] ok; fj; kš , l - vkfnA
- ❖ Vrbdkšyñl ; k uh & ok; fj; kš Vh-] ck; kš/ky oh- Vh-, u- vkfnA
- ❖ lkh; fj l Lih& ok; fj; kš th-dsch- vkfnA

➤ Ql y eami ; kš &

- ❖ gfydkj jik vkjfetjk }kjk l Øier dikl & 500 ,y-bz , p-, -, u-ihoh- ifr gðVjA
- ❖ gfydkj jik vkjfetjk }kjk l Øier puk o vgg & 250 ,y-bz , p-, -, u-ihoh- ifr gðVjA
- ❖ Lik/ksVjk ykbVjk }kjk l Øier dšy & 1400 ,y-bz , l-, y-, u-ihoh- ifr gðVjA
- ❖ Lik/ksVjk ykbVjk }kjk l Øier dikl & 500 ,y-bz , l-, y-, u-ihoh- ifr gðVjA
- ❖ Lik/ksVjk ykbVjk }kjk l Øier rEckdw & 250 ,y-bz , l-, y-, u-ihoh- ifr gðVjA

**ðoð**

➤ ðoð l Øe.k dsy{k.k &

- ❖ Hkstu de dj nšuk rFk iji kškh dhV i kška ds Áijh Hkx ij pyk tkrk gð
- ❖ fpMšpMki u es deh gšuk rFk l kedu; ; k vkš"kd i {kk?kk r gšukA
- ❖ dhV ds vkok.k ds kšcka dk Qhdk i M+ tkuk vkš jDr es vEyrk dk c< tkukA
- ❖ "kjhj dk etc r gšuk vkš eR; qdsl e; vius ij l h/ksdj yrk gð
- ❖ eR; q l Øe.k ds , d l l rkg ; k 24 ?kš/s ds Hkhrj gk tkrh gð
- ❖ eR; q ds fuEu dkj .k gš &
  - ✓ jDr dkš"kd kvka ds }kjk i fj l pj .k cn dj nšukA
  - ✓ vkr es : dkoV vkukA
  - ✓ ðoð }kjk mRi u fo'kA

➤ yHnk; d ðoð dsmnkj.k &

- ❖ eš/kjkbft; e , ful kšfy & /kku es Hkj lykUV gkñj ds fu; æ.k ds fy; smi ; kš gšrk gð okf.kFT; d mRi kn & eš/kD; qkš ck; kš&1020
- ❖ cš ðfj; k ckfl vkuk & vj .Mh ds l ehvij ds fu; æ.k ds fy; smi ; kš gšrk gð okf.kFT; d mRi kn & ckšju
- ❖ oVñl fy; e yðkuh & dkñh xhu Ldsy ds fu; æ.k ds fy; smi ; kš gšrk gð

**Ákdfrd 'k=ϕkðk l j{k.k**

Ákdfrd "k=q i ; kšj.k es ik; s tkrš gš tš gkfudkjð dhVka dks ekj nšs gš bl fy, Ákdfrd "k=ϕkðk l j{k.k djuk cgr t: jh gð i kdfrd "k=ϕkðk l j{k.k , oac<kok nšs okyh fof/k; kñfuEu gð

1- l jf{r dhVuk'kdka dk mi ; kš & , ð s dhVuk'kdka dk mi ; kš djuk pkfg; s tš dhVka ds fy; s gkfudkjð gkš yšdu Ákdfrd "k=ϕkðk ds fy; s gkfudkjð ugha gkš ; kuh p; ukRed dhVuk'kdka dk mi ; kš djuk pkfg; ð

- ❖ u h e w d h feyh cx dk fu; æ . k ] i j Hk { k h dhV f Ø I V k s f ; e l e k Ø V j k s t j h d s } k j k f d ; k t k l d r k g Å
- ❖ i k j F k s u ; e dk fu; æ . k ] t l b x k s t e k c l b d k s y l j k V k d s } k j k f d ; k t k l d r k g Å
- ❖ Q k d s y k u ] l k b i j e f k u ] Q u o y j s v k f n l j f { k r dhVuk " k d k a d s v r æ r v k r s g Å
- 2- **de ek=k es dhVuk'kdla dk mi ; s x &** dhVuk " k d k a d k m i ; s x d e e k = k e s d j u k p k f g ; s f t l l s Åkdfrd "k=ϕka dks u p l k u u g h i g p Å
- 3- **p ; u k r e d dhVuk'kdla ds : i , o a l k e x h d k m i ; s x d j u k &** dhVuk " k d k a d k n k u n k j : i Åkdfrd "k=ϕka d s f y ; s l j f { k r g k r k g Å f l L V f e d dhVuk " k d Åkdfrd "k=ϕka d s f y ; F k k M s g k f u d k j d g k r s g s t c f d l a d z dhVuk " k d Åkdfrd "k=ϕka d s f y ; s l j f { k r g k r s g Å l u e t h o k s } k j k i k l r m r i k n t s s & d o d ] t h o k . k j , u - i - h - o h ] c h V h v k f n Åkdfrd "k=ϕka d s f y ; s l j f { k r g k r s g Å b l h i z d k j l a q V d k ; Ø r i k ; j f k k b M t i j Hk { k h o # F k h d s f y ; s l j f { k r g Å
- 4- **I f e r { s - l a e s dhVuk'kdla dk mi ; s x d j u k &** d i k l e s , d i a D r d k s N k M e j n i j h i a D r i j dhVuk " k d d k L i s d j u k A , s d h V u k " k d k a d k m i ; s x d j u k t k s d e l e ; d s f y ; s g h l f Ø ; j g r s g k Å
- 5- **dhVuk'kdla dk Lis l f e r l e ; e s d j u k &** dhVuk " k d k a d k L i s , o a Åkdfrd "k=ϕka d k v k o k x e u , d g h l e ; e s u g h a g k u k p k f g ; Å m l l e ; dhVuk " k d k a d k L i s u g h a d j u k p k f g ; s t c Åkdfrd "k=ϕka d k s u p l k u i g p Å g k f u d k j d j l k ; u k a d k i z s x f e = dhVka d s v u d k j 0 ; o f L F k r g k u k p k f g , t s s & v l s y e k f e y d i k i l c h f V y o i j t h 0 ; k H k V s f l L V d l T ; f y l d s f u d y u s d s c k n j l k ; u k a d k i z s x l Q y r k i m d f d ; k t k l d r k g Å
- 6- **ty icdu &** v k n r k r F k k f l p k b z d k i c d u b l i z d k j d j u k p k f g ; s f d T ; k n k l e ; r d [ k r x h y k u k j g s v l ; F k k g k f u d k j d dhVka d k i z d k i v f / k d g k s k A x h u g k m l e s o V h l f y ; e y d k u h d h i H k k f o r k , f o m f u ; æ . k d s f y ; s i k u h n d j c < k b z t k l d r h g Å f l p k b z l s H k h g k f u d k j d dhVka d s f u ; l = . k e a c g r e n n f e y r h g s D ; k f d [ k r e a u e h v f / k d g k s l s d h V H k { k h Q O m i H k k o h g k s t k r h g Å j k t L F k u j k T ; d s c k j k w f t y s e a l k s k c h u e a v ) d i q M y d b Y y h d h 5 0 l s 1 0 0 i f r " k r r d l a ; k l l ; e s j ; k f j y k b z d s } k j k f l f p r [ k r k a e a u ' V i k ; h x ; h A
- 7- **Ql y vo'kska dk icdu &** Ql y vo " k s k a d k s t y k u s l s m l e a m i f L F k r i j H k { k h dhV , o a i j t h 0 ; k H k H k u ' V g k s t k r s g Å v x j x l u s d h Q l y d k s f c u k t y k ; s N k M + n h t k ; r k s b i h f j d k f u ; k e s y k u k s y o d k j v k u l k ; j V l i s h y k f u l d k l j { k . k f d ; k t k l d r k g Å
- 8- **phVa dk fu; æ . k &** p h V h ; k j Åkdfrd "k=ϕka d k s e k j n r h g s b l f y ; s p h V h ; k a d k f u ; æ . k d j u k p k f g , A
- 9- **Ql y dk i s u z &** Ql y k s d k s [ k r e s b l i z d k j c k u k p k f g ; s f d g j l k y [ k r e s Q l y g k u h p k f g ; s f t l l s Åkdfrd "k=ϕQl y i j " k j . k y s l d Å
- 10- **v l r % Q l y v l s f e f J r Q l y m x k u k &** v l r % Q l y v l s f e f J r Q l y m x k u k Åkdfrd "k=ϕka d s f y ; s Q k ; n e n e k u k t k r k g Å [ k r d s p k j k s v l j v j . M t d h Q l y c k u k t k s L i k M k s V j k y k b V j k d s f y ; s Q a n k Q l y d h r j g d k ; l d j r h g Å e D d k ] d i k l d h Q l y e s g k s i j e D d k d s i k s k s i f r d y i f L F k r ; k a e a Ø k b l k i j y k d k j f u ; k d s f y ; s t y k " k ; d h r j g d k ; l d j r s g Å
- 11- **ifrdy i f L F k r ; l a d s n k s k u ' k j . k &** f e = dhVka d s l j { k . k d s f y ; s t # j h g s f d d e , o a v f / k d r k i e k u ] l u k k , o a v f Ø ; k " k h y v o L F k k e a m u d h j { k k g k s l d Å d i n f e = dhV v i u h f u f ' Ø ; r k Q l y v o " k s k e a g h i j h d j y r s g Å v r % b u v o " k s k a d k s t y k u s ; k u ' V d j u s d s c t k ; l j f { k r j [ k u k p k f g ; s r k f d f e = dhV v x y h Q l y d s f y ; s v k l k u h l s m i y C / k g k s l d Å d i n , s i k s k s g k s u s p k f g ; s t k s i f r d y i f L F k r ; k a d s n k s k u Åkdfrd "k=ϕka d k s " k j . k n Å
- 12- **fe= thoka dh vkuo'fkdh {kerk ea of} %p ; u** v F k o k i { k s = l æ g . k } k j k f e = t h o k a d h v k u o ' f i " k d { k e r k e a o f } d h t k l d r h g Å b u i f Ø ; k v k a } k j k f u E u i j H k { k h v ' V i k n h dhV e b / k f l y l v k d l h M V s y l ] Q k b V k f l y l i j f l f e f y l , o a , E c y k b f l ; l , U M j l k u h d k s i z k s = e a l Q y r k i m d N k M k t k l d r k g Å b l h i z d k j i j t h 0 ; k H k V k ; k f d l l i s y h m l ] f M X y h i l c f x u h v l s , Q k b V l e f y u l d k s

Hkh l Qyrki n d i z k s e a f y ; k t k p p k g a f e = t h o k a d h i H k k o " k h y r k e a o f ) g s / j k f l l ) k j k H k h c < k ; h t k l d r h g a i f j o f r t i H k s n k a d h d k ; l ' k h y r k e a o f ) j h d k E o h u s V M h , u , r d u h d ) k j k b P N d t h u l d k s i o f " k r d j d s i k l r d h t k l d r h g a

13- **i k s d k l r - % i k s k k a d k j l** Hkh fe= dhVka dks vkdf'kz djus , oaml dh fO; k"khyrk dks c<kus ea enn djrk gA , d i k ; k s x d v / ; ; u d s v u d k j , e j s f k l t k r d k l r - f N M d u s l s V k b d k s t e k i j t h o ; k h k g f y d k o i l v k e h z t j k d s v . M k a d k s T ; k n k i j t h f o r d j r k g a V e k V j d s l r - d s f N M d k o l s e D d k e a V k b d k s t e k } k j k g k f u d k j d d h V k a d h v . M i j t h f o r k H k h c < r h g a

14- **Q l y d s i k l i j k x , o a e / k q d s l = k r % e f ;** Q l y d s i k l , d h Q l y k a d k s i a d f k r k n u h p k f g ; s t k s f e = d h V k a d k s e / k q , o a i j k x m i y C / k d j o k l d a ; s i k s k s , d s d h V k a d k s H k h v k J ; n r s g a t k s f d f e = d h V k a d s f y ; s d k c k j k b M V L = k r d s # i e a e / k q d h n k a d k s m i y C / k d j k r s g a v u k t o k y h Q l y k a e a [ k j i r o k j k a d h i e h g k a s l s d j k f c M i j t h o ; k h k i f l y l D ; f i l d s f y , i k s ; d h V d h m i y C / k r k , o a i z t u u e a o f ) g k s h g a